

# PATENT COOPERATION TREATY

## PCT

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference PU030207	FOR FURTHER ACTION		See Form PCT/IPEA/416
International application No. PCT/US2004/022954	International filing date (day/month/year) 16.07.2004	Priority date (day/month/year) 21.07.2003	
International Patent Classification (IPC) or national classification and IPC H04N5/91, H04N5/93, H04N5/76			
Applicant THOMSON LICENSING S.A.			

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1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 6 sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising:
  - a.  sent to the applicant and to the International Bureau a total of 2 sheets, as follows:
    - sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
    - sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
  - b.  (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:

- Box No. I Basis of the opinion
- Box No. II Priority
- Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- Box No. IV Lack of unity of invention
- Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- Box No. VI Certain documents cited
- Box No. VII Certain defects in the international application
- Box No. VIII Certain observations on the international application

Date of submission of the demand 14.02.2005	Date of completion of this report 02.02.2006
Name and mailing address of the international preliminary examining authority: European Patent Office - Gitschner Str. 103 D-10958 Berlin Tel. +49 30 25901 - 0 Fax: +49 30 25901 - 840	Authorized Officer Dudley, C Telephone No. +49 30 25901-462



**INTERNATIONAL PRELIMINARY REPORT  
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**Box No. I Basis of the report**

1. With regard to the **language**, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of:
- international search (under Rules 12.3 and 23.1(b))
  - publication of the international application (under Rule 12.4)
  - international preliminary examination (under Rules 55.2 and/or 55.3)
2. With regard to the **elements\*** of the international application, this report is based on (*replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report*):

**Description, Pages**

1-10 as originally filed

**Claims, Numbers**

1-11 received on 18.02.2005 with letter of 14.02.2005

**Drawings, Sheets**

1/2, 2/2 as originally filed

- a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing

3.  The amendments have resulted in the cancellation of:

- the description, pages
- the claims, Nos. 4,10
- the drawings, sheets/figs
- the sequence listing (*specify*):
- any table(s) related to sequence listing (*specify*):

4.  This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- the description, pages
- the claims, Nos.
- the drawings, sheets/figs
- the sequence listing (*specify*):
- any table(s) related to sequence listing (*specify*):

\* If item 4 applies, some or all of these sheets may be marked "superseeded."

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**Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

**1. Statement**

Novelty (N)	Yes: Claims	1-3,5-9,11
	No: Claims	
Inventive step (IS)	Yes: Claims	1-3,5-9,11
	No: Claims	
Industrial applicability (IA)	Yes: Claims	1-3,5-9,11
	No: Claims	

**2. Citations and explanations (Rule 70.7):**

**see separate sheet**

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**Re Item V**

**Reasoned statement with regard to novelty, inventive step or industrial applicability;  
citations and explanations supporting such statement**

1. The following documents are referred to in this communication:

D1: US 2003/0063893 A1 (Read) 2003-04-03

2. Document D1 is regarded as being the closest prior art to the subject-matter of claim 1, and shows (the references in parentheses applying to this document):

a method for time-shifting a presentation of multimedia content using a recorder comprising (the steps of):

receiving a first stream of multimedia content on a first channel (paragraph 46);

storing the first stream of multimedia content to a data store associated with the recorder (paragraphs 46-47);

receiving a channel change request (paragraph 46);

receiving a second steam of multimedia content on a second channel correlating to the channel change request (paragraph 46); and

storing the second stream of multimedia content to the data store while retaining the first stream of multimedia content in the data store (paragraphs 46-47 and 53-54).

The subject-matter of claim 1 differs from that known from D1 in that it further comprises the steps of:

receiving a rewind trick mode request;

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presenting the second stream of multimedia content in reverse; and

presenting the first stream of multimedia content in reverse after reaching a beginning of the second stream of multimedia content.

The subject-matter of claim 1 is therefore new (Article 33(2) PCT).

3. The problem to be solved by the present invention may be regarded as one of how to provide a rewind trick mode across the two stored data streams. The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT) as it is neither disclosed nor fairly suggested in the available prior art as represented by the documents cited in the Search Report.
4. Claims 2, 3 and 5 (claim 4 having been cancelled) are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.
5. Document D1 is regarded as being the closest prior art to the subject-matter of claim 6, and shows (the references in parentheses applying to this document):
  - a recorder comprising:
    - an input port for receiving a first stream of multimedia content on a first channel (paragraphs 30-32);
    - a data store for storing the first stream of multimedia content (paragraph 33);
    - a user interface for receiving a channel change request (paragraph 30);
    - a processor for changing a channel to receive through the input port a second stream of multimedia content on a second channel correlating to the channel change request (paragraphs 30-32) and storing the second stream of multimedia

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content to the data store while retaining the first stream of multimedia content in the data store (paragraph 33).

The subject-matter of claim 1 differs from that known from D1 in that it further comprises:

a video decoder that presents the second stream of multimedia content in reverse, then presents the first stream of multimedia content in reverse after reaching a beginning of the second stream of multimedia content.

The subject-matter of claim 6 is therefore new (Article 33(2) PCT).

6. The problem to be solved by the present invention may be regarded as one of how to provide a rewind trick mode across the two stored data streams. The solution to this problem proposed in claim 6 of the present application is considered as involving an inventive step (Article 33(3) PCT) as it is neither disclosed nor fairly suggested in the available prior art as represented by the documents cited in the Search Report.
7. Claims 7, 8, 9 and 11 (claim 10 having been cancelled) are dependent on claim 6 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

Claims

1. A method for time-shifting a presentation of multimedia content using a recorder comprising:

receiving a first stream of multimedia content on a first channel;

5 storing the first stream of multimedia content to a data store associated with the recorder;

receiving a channel change request;

receiving a second stream of multimedia content on a second channel correlating to the channel change request;

10 storing the second stream of multimedia content to the data store while retaining the first stream of multimedia content in the data store;

receiving a rewind trick mode request;

presenting the second stream of multimedia content in reverse; and

presenting the first stream of multimedia content in reverse after reaching a beginning of the second stream of multimedia content.

15 2. The method according to claim 1 further comprising assigning at least one identifier to each of the first and second streams of multimedia content to identify a sequence in which the first and second streams of multimedia content are recorded.

20 3. The method according to claim 1 further comprising assigning at least one identifier to each of the first and second streams of multimedia content to identify a channel from which the first and second streams of multimedia content are recorded.

4. Canceled.

5. The method according to claim 1 further comprising:

receiving a play request;

presenting the first stream of multimedia content; and

25 presenting the second stream of multimedia content after reaching an end of the first stream of multimedia content.

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6. A recorder comprising:

an input port for receiving a first stream of multimedia content on a first channel;

a data store for storing the first stream of multimedia content;

a user interface for receiving a channel change request;

5 a processor for changing a channel to receive through the input port a second stream of multimedia content on a second channel correlating to the channel change request and storing the second stream of multimedia content to the data store while retaining the first stream of multimedia content in the data store; and

10 a video decoder that presents the second stream of multimedia content in reverse, then presents the first stream of multimedia content in reverse after reaching a beginning of the second stream of multimedia content.

7. The recorder of claim 6 wherein the processor further assigns at least one identifier to each of the first and second streams of multimedia content to identify a sequence in which the first and second streams of multimedia content are recorded.

15 8. The recorder of claim 6 wherein the processor further assigns at least one identifier to each of the first and second streams of multimedia content to identify a channel from which the first and second streams of multimedia content are recorded.

9. The recorder of claim 6, said user interface further comprising a user input device through which a user can choose a user selectable function to perform a desired recorder operation.

20 10. Canceled.

11. The recorder of claim 6 further comprising a video decoder that presents the first stream of multimedia content, then presents the second stream of multimedia content after reaching an end of the first stream of multimedia content.

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